

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v1)

1. Factor the expression $3x^2 - 7x + 4$

2. Factor the expression $2x^2 + 11x + 5$

3. Factor the expression $3x^2 + 22x - 45$

4. Factor the expression $7x^2 + 22x + 3$

5. Factor the expression $7x^2 - 15x - 18$

6. Factor the expression $2x^2 + 21x + 40$

7. Factor the expression $11x^2 - 63x - 18$

8. Factor the expression $7x^2 - 18x - 9$

9. Factor the expression $5x^2 - 49x + 72$

10. Factor the expression $7x^2 - 60x + 32$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v2)

1. Factor the expression $11x^2 + 82x - 48$

2. Factor the expression $5x^2 + 17x + 6$

3. Factor the expression $5x^2 - 3x - 8$

4. Factor the expression $11x^2 + 57x - 54$

5. Factor the expression $7x^2 - 26x - 8$

6. Factor the expression $7x^2 + 54x + 35$

7. Factor the expression $11x^2 - 57x - 54$

8. Factor the expression $11x^2 - 19x + 8$

9. Factor the expression $7x^2 - 58x - 45$

10. Factor the expression $7x^2 + 41x - 6$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v3)

1. Factor the expression $3x^2 + 17x - 56$

2. Factor the expression $11x^2 + 96x + 64$

3. Factor the expression $3x^2 + 35x + 72$

4. Factor the expression $5x^2 + 23x + 24$

5. Factor the expression $2x^2 + 17x + 21$

6. Factor the expression $11x^2 + 108x + 81$

7. Factor the expression $7x^2 - 17x - 12$

8. Factor the expression $3x^2 - 14x - 5$

9. Factor the expression $7x^2 + 11x - 6$

10. Factor the expression $7x^2 + 54x + 35$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v4)

1. Factor the expression $5x^2 - 18x + 16$

2. Factor the expression $2x^2 - 15x + 25$

3. Factor the expression $3x^2 + 11x + 10$

4. Factor the expression $5x^2 + 11x + 6$

5. Factor the expression $3x^2 + 8x - 35$

6. Factor the expression $7x^2 + 20x - 32$

7. Factor the expression $5x^2 - 12x + 4$

8. Factor the expression $7x^2 - 23x + 6$

9. Factor the expression $5x^2 - 28x + 32$

10. Factor the expression $3x^2 - 13x + 14$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v5)

1. Factor the expression $5x^2 - 36x - 81$

2. Factor the expression $7x^2 + 29x - 30$

3. Factor the expression $5x^2 - 27x - 18$

4. Factor the expression $7x^2 + 30x + 8$

5. Factor the expression $7x^2 + 15x - 18$

6. Factor the expression $7x^2 - 6x - 1$

7. Factor the expression $5x^2 + 6x - 27$

8. Factor the expression $11x^2 + 23x + 2$

9. Factor the expression $5x^2 + 19x - 4$

10. Factor the expression $11x^2 - 38x + 15$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v6)

1. Factor the expression $3x^2 + 17x + 24$

2. Factor the expression $3x^2 - 2x - 5$

3. Factor the expression $11x^2 + 31x - 6$

4. Factor the expression $11x^2 + 25x + 6$

5. Factor the expression $7x^2 + 59x - 36$

6. Factor the expression $11x^2 - 80x + 21$

7. Factor the expression $5x^2 + 22x + 8$

8. Factor the expression $3x^2 - 8x - 16$

9. Factor the expression $2x^2 + 7x - 72$

10. Factor the expression $11x^2 + 37x + 12$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v7)

1. Factor the expression $5x^2 + 37x + 42$

2. Factor the expression $5x^2 + 6x - 8$

3. Factor the expression $5x^2 + 39x + 28$

4. Factor the expression $2x^2 + 17x - 9$

5. Factor the expression $11x^2 + 105x + 54$

6. Factor the expression $5x^2 + 2x - 16$

7. Factor the expression $11x^2 + 97x + 72$

8. Factor the expression $7x^2 + 71x + 72$

9. Factor the expression $5x^2 + 3x - 14$

10. Factor the expression $7x^2 + 47x - 72$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v8)

1. Factor the expression $11x^2 - 84x + 49$

2. Factor the expression $7x^2 + 45x + 18$

3. Factor the expression $11x^2 - 94x + 48$

4. Factor the expression $11x^2 - 28x - 15$

5. Factor the expression $3x^2 - 20x - 7$

6. Factor the expression $7x^2 + 32x + 16$

7. Factor the expression $7x^2 + 33x - 10$

8. Factor the expression $7x^2 - 8x + 1$

9. Factor the expression $7x^2 + 61x - 18$

10. Factor the expression $7x^2 + 53x + 28$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v9)

1. Factor the expression $7x^2 - 15x - 18$

2. Factor the expression $3x^2 + 11x + 10$

3. Factor the expression $5x^2 - 28x + 15$

4. Factor the expression $11x^2 - 76x - 7$

5. Factor the expression $5x^2 + 23x - 42$

6. Factor the expression $11x^2 + 106x + 63$

7. Factor the expression $7x^2 - 72x + 81$

8. Factor the expression $7x^2 + 16x + 9$

9. Factor the expression $2x^2 + 5x - 12$

10. Factor the expression $5x^2 - 33x - 14$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v10)

1. Factor the expression $3x^2 + 11x - 42$

2. Factor the expression $5x^2 - 42x + 16$

3. Factor the expression $11x^2 + 101x + 18$

4. Factor the expression $5x^2 + 38x - 63$

5. Factor the expression $11x^2 + 9x - 2$

6. Factor the expression $2x^2 - 17x + 8$

7. Factor the expression $5x^2 - 22x + 21$

8. Factor the expression $5x^2 + 24x + 27$

9. Factor the expression $7x^2 - 58x - 45$

10. Factor the expression $5x^2 + 13x - 28$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v11)

1. Factor the expression $11x^2 + 19x + 8$

2. Factor the expression $3x^2 - 16x + 21$

3. Factor the expression $3x^2 - 26x + 48$

4. Factor the expression $2x^2 + 21x + 27$

5. Factor the expression $5x^2 + 29x + 20$

6. Factor the expression $7x^2 - 55x + 42$

7. Factor the expression $5x^2 + 17x - 12$

8. Factor the expression $11x^2 - 85x + 56$

9. Factor the expression $7x^2 - 12x - 4$

10. Factor the expression $11x^2 + 84x + 49$

Name: _____

pb1106: Factoring when $a = \text{prime}$ (v12)

1. Factor the expression $3x^2 - 8x - 35$

2. Factor the expression $2x^2 + 5x - 63$

3. Factor the expression $3x^2 - 34x + 63$

4. Factor the expression $5x^2 + 16x - 16$

5. Factor the expression $11x^2 - 84x + 49$

6. Factor the expression $11x^2 - 69x - 56$

7. Factor the expression $5x^2 - 47x + 56$

8. Factor the expression $11x^2 + 53x - 10$

9. Factor the expression $11x^2 + 38x + 15$

10. Factor the expression $5x^2 - 7x + 2$